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TECHNICAL NOTES

LAKE STATES FOREST EXPERIMENT STATION U. S. DEPARTMENT OF AGRICULTURE · FOREST SERVICE No. 548

Net Timber Volume in Michigan by Species Group and County

Commercial forests of Michigan contain 134 million cords of timber growing stock; slightly more than one-half of this is in the Upper Peninsula. Marquette County with 8,668,000 cords has more growing stock than any other county in the State. Three other counties, all located in the Upper Peninsula, contain over 5 million cords each.

The soft hardwoods comprise 45 percent of the total growing stock volume, hard hardwoods 31 percent, and softwoods 24 percent. Pines make up the largest portion of softwood volume in the Lower Peninsula, but spruce and fir predominate in the Upper Peninsula.

Sawtimber volume is fairly evenly divided between the two peninsulas and between the four districts. Softwood sawtimber ranges from a high of 43 percent of the district total in the eastern Upper Peninsula to a low of 2 percent in the southern Lower Peninsula. Sugar maple is the leading sawtimber species in the Upper Peninsula. In the Lower Peninsula the oaks lead, followed closely by elm.

These and other forest resource statistics are the products of a cooperative Forest Survey conducted from 1946-56 by the Forest Service, U. S. Department of Agriculture, and the Michigan Department of Conservation with participation by forest industries and other public agencies in some areas. Additional information pertaining to the forest resources of Michigan is available from the Lake States Forest Experiment Station and the Michigan Department of Conservation.

EASTERN UPPER PENINSULA

County	Growing stock ^{1/}							Sawtimber ^{2/}											
	Total	Pine	Spr. & fir	Tam. & ced.	Hem- lock	Hard ^{3/} hdwds.	Soft ^{4/} hdwds.	Total	W&R : pine	Hem- : lock	Other : con.	Sugar : maple	Red : maple	Yel. : birch	Bass- : wood	Beech	Elm	Red : oak	Other : hdwds.
	Thousand cords ^{5/}							Million board-feet ^{6/}											
Alger	5,371	311	438	342	700	1,929	1,651	1,223	72	258	106	320	74	98	17	146	29	9	94
Chippewa	5,706	738	872	684	208	977	2,227	940	126	71	217	111	57	55	8	59	27	2	207
Delta	4,335	435	639	587	197	644	1,833	571	74	66	139	76	29	31	5	28	20	1	102
Luce	4,484	576	616	445	403	1,359	1,085	1,018	117	146	185	202	78	111	11	104	22	1	41
Mackinac	4,395	257	738	704	160	745	1,791	651	69	54	172	85	38	41	7	44	19	2	120
Menominee	3,798	185	481	561	164	678	1,729	516	43	58	103	102	20	29	7	34	21	1	98
Schoolcraft	3,859	564	505	477	209	728	1,376	639	102	71	132	99	41	40	5	42	21	1	85
Total	31,948	3,066	4,289	3,800	2,041	7,060	11,692	5,558	603	724	1,054	995	337	405	60	457	159	17	747

WESTERN UPPER PENINSULA

Baraga	4,681	266	632	281	230	1,994	1,278	954	68	91	198	378	30	93	26	*	5	12	53
Dickinson	1,564	139	248	179	10	192	796	143	27	4	47	15	1	8	4	*	3	2	32
Gogebic	4,841	76	415	240	424	1,819	1,867	936	14	149	107	356	30	127	28	-	50	3	72
Houghton	4,284	158	234	134	182	1,736	1,840	746	17	62	76	274	70	112	31	-	25	5	74
Iron	4,366	343	490	252	91	1,474	1,716	782	89	36	106	293	22	85	18	-	37	1	95
Keweenaw	2,298	146	477	274	10	749	642	518	50	3	200	97	23	65	6	-	-	17	57
Marquette	8,668	788	1,017	730	1,131	2,596	2,406	1,953	212	392	372	468	38	135	42	16	2	78	198
Ontonagon	6,138	155	460	205	755	1,994	2,569	1,215	24	274	135	402	53	127	37	-	33	4	126
Total	36,840	2,071	3,973	2,295	2,833	12,554	13,114	7,247	501	1,011	1,241	2,283	267	752	192	16	155	122	707

(Footnotes and continuation of table on back of sheet)

Virgil E. Findell, Forester
Lake States Forest Experiment Station

Ray E. Pfeifer, Forester
Michigan Department of Conservation

JANUARY 1959

MAINTAINED AT ST. PAUL 1, MINNESOTA, IN COOPERATION WITH THE UNIVERSITY OF MINNESOTA

NORTHERN LOWER PENINSULA

County	Growing stock ^{1/}							Sawtimber ^{2/}												
	Total	Pine	Spr. :	Tam. :	Hem- :	Hard ^{3/} :	Soft ^{4/} :	Total	W&R : : pine	Hem- : : lock	Other : : con. :	Sugar : : maple :	Red : : maple :	Yel. : : birch :	Bass- : : wood :	Beech :	Elm :	Red : : oak :	Wh. : : oak :	Other : : hdwds.
			& fir :	& ced. :	lock :	hdwds. :	hdwds. :													
Thousand cords ^{5/}							Million board-feet ^{6/}													
Alcona	1,700	235	77	121	17	270	980	130	36	4	25	1	1	2	2	1	8	14	5	31
Alpena	1,507	131	127	122	29	231	867	133	23	7	23	8	3	1	5	3	18	11	4	27
Antrim	1,263	37	34	52	22	380	738	161	9	4	8	24	9	1	14	25	35	5	1	26
Arenac	418	20	9	22	1	59	307	42	4	*	2	1	3	*	3	*	11	3	3	12
Benzie	831	26	12	31	22	311	429	125	4	6	5	23	5	1	9	23	28	6	1	14
Charlevoix	1,190	38	40	63	22	336	691	130	9	6	10	19	8	1	11	15	28	5	1	17
Cheboygan	1,902	203	78	111	34	429	1,047	208	36	8	22	18	6	1	11	12	24	18	4	48
Clare	1,209	54	19	60	4	140	932	134	13	*	6	3	11	*	14	1	36	6	8	36
Crawford	1,251	426	51	54	7	226	487	116	27	2	36	1	1	*	2	1	6	16	5	19
Emmet	1,298	52	33	59	23	362	769	150	12	5	8	22	5	*	13	15	24	11	1	34
Gladwin	820	44	16	39	3	126	592	80	8	1	5	2	6	*	5	*	18	7	6	22
Gr. Traverse	943	89	22	52	24	312	444	136	17	6	10	15	5	1	7	12	29	14	4	16
Iosco	1,199	268	37	71	9	191	623	112	26	2	23	1	5	*	4	*	15	9	6	21
Kalkaska	1,002	140	20	37	21	292	492	136	20	5	15	13	3	1	6	10	22	23	4	14
Lake	1,896	194	10	41	14	925	712	242	15	3	21	7	10	2	6	4	24	100	24	26
Leelanau	1,211	50	14	26	22	434	665	187	16	6	4	32	8	*	16	29	37	13	1	25
Manistee	1,598	97	13	28	17	750	693	236	15	5	10	16	11	2	9	11	33	80	18	26
Mason	1,161	77	9	42	14	422	597	149	8	4	8	8	10	2	7	6	28	37	9	22
Mecosta	941	26	1	20	28	229	637	130	8	7	3	10	7	1	6	7	32	17	6	26
Midland	994	43	21	51	3	122	754	100	9	*	5	3	9	*	8	1	26	4	8	27
Missaukee	1,028	61	25	36	12	287	607	107	9	4	6	7	4	1	4	6	15	26	7	18
Montmorency	1,606	237	94	91	19	246	919	142	35	4	23	7	2	1	5	3	10	11	4	37
Newaygo	1,956	140	3	45	35	846	887	307	36	9	8	11	15	1	10	10	56	90	25	36
Oceana	1,258	44	1	26	43	479	665	223	11	12	4	14	16	2	12	16	55	38	11	32
Ogemaw	1,564	205	61	75	10	264	949	123	25	2	18	2	2	2	3	1	18	15	4	31
Osceola	1,258	27	8	29	23	303	868	148	4	8	4	15	11	2	12	15	28	17	5	27
Oscoda	1,673	584	41	64	8	262	714	171	60	3	45	1	*	1	1	1	6	14	4	35
Otsego	1,343	99	43	62	26	352	761	144	14	6	15	17	5	1	10	10	21	12	2	31
Presque Isle	1,478	156	140	147	19	205	811	125	32	4	23	7	2	1	4	3	12	9	3	25
Roscommon	1,352	210	43	68	10	289	732	120	32	2	20	1	2	1	2	*	8	22	5	25
Wexford	1,139	67	17	39	23	315	678	122	5	6	7	11	7	1	7	10	22	23	3	20
Total	39,989	4,080	1,119	1,784	564	10,395	22,047	4,569	578	141	422	320	192	30	228	251	733	676	192	806

SOUTHERN LOWER PENINSULA

Allegan	1,020	12	-	5	-	493	510	235	4	-	1	31	23	-	6	24	46	41	18	41
Barry	529	3	-	2	-	284	240	134	1	-	*	12	15	-	3	11	22	35	16	19
Bay	308	9	1	5	*	82	211	70	4	-	1	4	6	-	6	1	21	9	7	11
Berrien	534	5	-	1	-	262	266	159	2	-	*	21	12	-	8	18	30	29	11	28
Branch	376	-	-	2	-	167	207	103	-	-	*	10	14	-	4	4	26	17	16	12
Calhoun	439	*	-	2	-	227	210	111	-	-	*	4	11	-	2	2	27	25	27	13
Cass	663	2	-	2	-	359	300	199	1	-	*	17	12	-	7	16	34	59	19	34
Clinton	267	-	-	1	-	104	162	71	-	-	*	12	7	-	4	4	24	6	7	7
Eaton	334	*	-	1	-	148	185	94	*	-	*	28	10	-	6	8	27	3	4	8
Genesee	708	3	1	5	-	266	433	180	1	-	1	13	22	*	11	5	50	30	22	25
Gratiot	540	6	1	3	-	150	380	158	2	-	1	13	21	*	12	4	53	14	16	22
Hillsdale	483	-	-	1	-	284	198	134	-	-	*	20	11	-	5	6	24	25	28	15
Huron	930	10	3	12	2	298	605	190	3	*	2	15	18	*	14	6	52	27	22	31
Ingham	329	-	-	*	-	150	179	86	-	-	*	14	8	-	4	4	26	10	11	9
Ionia	466	10	-	2	-	214	240	119	3	-	*	24	16	*	5	10	25	17	8	11
Isabella	635	4	1	18	2	183	427	133	1	1	3	7	12	*	12	2	34	20	14	27
Jackson	568	-	-	3	-	329	236	151	-	-	*	1	15	-	2	*	26	44	45	18
Kalamazoo	423	1	-	1	-	207	214	112	*	-	*	8	7	-	7	6	22	29	12	21
Kent	1,052	37	*	7	13	506	489	239	11	4	1	23	32	1	9	15	43	55	22	23
Lapeer	1,177	4	2	9	-	445	717	322	2	-	1	28	41	*	19	9	94	47	38	43
Lenawee	802	1	*	1	-	438	362	239	*	-	*	33	21	1	11	11	49	49	34	30
Livingston	763	1	*	1	-	315	446	212	*	-	*	15	24	1	7	5	66	34	28	32
Macomb	360	3	1	1	-	160	195	90	1	-	*	8	9	*	4	3	22	18	12	13
Monroe	586	*	*	*	-	333	253	179	-	-	-	12	19	1	4	3	35	56	27	22
Montcalm	1,072	37	1	11	9	425	589	218	12	3	1	14	35	1	8	7	58	41	16	22
Muskegon	1,280	70	*	6	6	727	471	242	21	2	1	17	24	*	6	8	37	75	29	22
Oakland	1,029	4	1	18	-	484	522	259	1	-	1	23	22	1	12	8	61	49	42	39
Ottawa	420	11	*	2	5	196	206	95	3	2	*	9	15	*	4	6	19	19	9	9
Saginaw	1,082	17	2	7	4	321	731	293	6	1	1	19	36	*	21	6	93	33	32	45
St. Clair	1,194	2	1	5	3	486	697	332	1	1	1	30	36	*	23	12	89	51	43	45
St. Joseph	400	1	-	1	-	241	157	110	*	-	*	4	6	-	2	2	16	46	16	18
Sanilac	745	8	2	8	2	199	526	172	3	1	1	10	23	*	11	5	61	16	15	26
Shiawassee	488	7	*	1	-	182	298	136	2	-	1	14	15	*	12	5	39	17	14	17
Tuscola	1,095	11	3	10	2	375	694	236	3	*	3	22	23	*	17	9	62	34	27	36
Van Buren	693	1	-	2	-	301	389	186	*	-	*	19	16	-	8	17	45	33	14	34
Washtenaw	982	1	-	1	-	456	524	289	*	-	*	23	33	1	9	7	76	60	41	39
Wayne	366	1	*	*	*	207	158	95	*	*	*	7	8	*	3	3	17	24	18	15
Total	25,138	282	20	157	48	11,004	13,627	6,383	88	15	21	584	678	7	308	272	1,551	1,197	780	882

State total
all districts 133,915 9,499 9,401 8,036 5,486 41,013 60,480 23,757 1,770 1,891 2,738 4,182 1,474 1,194 788 996 2,598 (2,984) 3,142

1/ Net volume of live sawtimber trees and live poletimber trees from stump to a minimum 4.0-inch top diameter (of central stem) inside bark. Does not include limbs and cull tree volume. Volumes of one billion cubic feet (12,500,000 cords) are subject to a sampling error of + 2.3 percent (1 standard deviation).

2/ Net sawtimber volume of trees of commercial species that contain at least one merchantable sawlog with a minimum top diameter inside bark of 8.0 inches. All softwood species 9.0 inches or larger in diameter at breast height and all hardwood species 11.0 inches and larger are included.

3/ Sugar maple, yellow birch, beech, oak, and hickory.

4/ Aspen, elm, ash, basswood, etc.

5/ Standard survey cord of 80 cubic feet of solid wood.

6/ Board-feet by the International Log Rule 1/4-inch kerf.

* Signifies less than 500 cords or 500,000 board-feet.